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Product Name :

LDR

Product Code :

SLE/PHY/262



Description :

LDR (Product Code: SLE/PHY/262) is a cadmium sulphide light dependent resistor, a photoconductive cell whose resistance falls as more light reaches it, used for light-sensing experiments in school and college physics and electronics labs. Teachers choose it because its spectral response is similar to that of the human eye, its dark resistance is 1M?, and it sits in a robust clear plastic case with a clear end window. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a physics instruments supplier in India.

Specifications

Parameter	Detail
Type	Cadmium sulphide (CdS) light dependent resistor — photoconductive cell
Spectral response	Similar to that of the human eye
Behaviour	Resistance reduces as the light falling on the LDR increases
Dark resistance	1M?
Resistance at 1 ftc (foot-candle)	5.4k? min, 12.6k? max
Maximum voltage	250V peak AC or DC
Power dissipation	250mW max.
Operating temperature	–60°C to +75°C
Dimensions, top	14.35 x 7mm (dia. x d)
Pin length	9.53mm
Protection	Moisture-resistant coating; enclosed in a robust clear plastic case with a clear end window
Product code	SLE/PHY/262
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is an LDR Used For?

In class, the simplest investigation is to connect the LDR to a multimeter set to resistance and take readings in darkness, in room light and under a lamp, or at several distances from the lamp, then plot resistance against light level. In circuits, an LDR is combined with a fixed resistor as a potential divider so that the output voltage changes with brightness — the principle behind automatic night lights, light meters and light-operated alarms. Its eye-like spectral response makes it a sensible choice for any opto-electronics experiment kit that measures light as people perceive it.

Keep within the 250V peak and 250mW limits by adding a suitable series resistor, bend the pins gentl
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